

FEB 29 2008

UTAH DIVISION OF
SOLID & HAZARDOUS WASTE

08.00821

February 29, 2008

Dennis R. Downs, Director
Utah Division of Solid and Hazardous Waste
288 North 1460 West
Salt Lake City, Utah 84114-4880
Attention: Rob Powers

Re: 2007 Solid Waste Landfill and Compost Facility Annual Reports, Davis Landfill

Dear Mr. Downs:

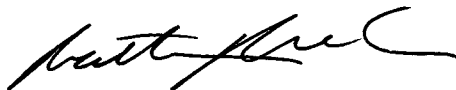
Please find the following documents transmitted with this letter to satisfy the annual reporting requirements of the Utah Administration Code R315-302-2(4) for the Davis Landfill and Green Waste Recycling Facility which are owned and operated by Wasatch Integrated Waste Management District.

- Calendar year 2007 Solid Waste Landfill Annual Report (state form)
- Calendar Year 2007 Solid Waste Compost Facility Annual Report (state form)
- Report of training programs and procedures completed by facility personnel during 2007
- Report of the 2007 Groundwater Monitoring conducted at the Davis Landfill
- Report of the 2007 Explosive Gas Monitoring conducted at the Davis Landfill
- Financial Assurance documentation required by UACR315-309

Please do not hesitate to contact me if you have any questions regarding these submissions.

Sincerely,

Wasatch Integrated Waste Management District



Nathan Rich, P.E.
Executive Director

attachments

Mail to:
Dennis R. Downs, Director
Division of Solid and Hazardous Waste
P.O. Box 144880
Salt Lake City, Utah 84114-4880

08.00821
HAND DELIVERED
www.hazardouswaste.utah.gov

SOLID WASTE LANDFILL ANNUAL REPORT

For Calendar year 2007 or most recent fiscal year

FEB 29 2008

UTAH DIVISION OF

Administrative Information (Please enter all the information requested below - type or print)

Facility Name: Davis Landfill
Facility Mailing Address: P.O. Box 900
(Number & Street, Box and/or Route)
City: Layton Zip Code: 84041-0900
County: Davis

Owner

Name: Wasatch Integrated Waste Management District Phone No.: (801) 614-5600
Mailing Address: Same as above
(Number & Street, Box and/or Route)
City: _____ State: _____ Zip Code: _____
Contact's Name: Nathan Rich Title: Executive Director
Contact's Mailing Address: P.O. Box 900
Phone No.: (801) 614-5601 Contact's Email Address: nathanr@wiwmd.org

Operator (Complete this section only if the operator is not an employee of the Owner shown above)

Name: _____ Phone No.: (_____) _____
Mailing Address: _____
(Number & Street, Box and/or Route)
City: _____ State: _____ Zip Code: _____
Contact's Name: _____ Title: _____
Contact's Mailing Address: _____
Phone No.: (_____) _____ Contact's Email Address: _____

Facility Type and Status

☒ Class I ☐ Class IIIb ☐ Class V
☐ Class II ☐ Class IVa ☐ Class VI
☐ Class IIIa ☐ Class IVb

C/D cell not operated under a separate permit number.

Yes ☐ No ☒

If facility was permanently closed during the year enter date closed: _____

Annual Disposal

Waste Type	Total tons received at facility for disposal:		Total	Measurement	
	In-State	Out-of-State		Tons	Cubic Yards
Municipal	<u>155,034.79</u>	<u>0</u>	<u>155,034.79</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Industrial	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>
C/D ¹	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>

¹C/D waste includes all waste going to a Class IV or VI landfill cell

Conversion Factor Used

- ☒ No conversion factors used
☐ Conversion factor from rules (R315-302-2(4)(c)) used
☐ Site specific conversion used Please list: _____

Recycling

Material Recycled: 7,444.0 Tons/Cubic Yds.
(Material recycled should not be included in disposed tons reported. Report compost on separate form. Circle tons or yards)

Utah Disposal Fee

Disposal Fee Required to be Paid to State Yes ☒ No ☐

Fee Paid	Municipal	\$ _____	C/D	\$ _____
	Industrial	\$ _____	Annual	\$ <u>14,700</u>

Landfill Capacity

Current Landfill Remaining Capacity

Tons: 4,487,655

Years: _____

Cubic Yards: _____

Acres: _____

Financial Assurance

Current Closure Cost Estimate: \$8,186,185.00

Current Post-Closure Cost Estimate: \$2,122,560.00

Current Amount or Balance in Mechanism: \$4,449,613.15 Escrow/\$6,935,543.00 Test

(If balance does not equal or exceed total for closure and post-closure care please contact the Division)

Current Financial Assurance Mechanism: Trust Fund/Local Government Financial Test

(ie. Bond, Trust Fund, Corporate or government Test etc.)

Mechanism Holder and Account Number: Utah State Treasurer, PTIF # 6579

(ie. Name of Bond Company, Bank etc. Account number)

Financial Assurance: Each facility must recalculate the cost of closure and post-closure care to account for inflation and design changes each year. The inflation factor can be found on the Division web page. Facilities that are using a trust account should include a copy of the most recent account statement.

Note Facilities using "Local Government Financial Test" or the "Corporate Financial Test" must provide the information required in R315-309-8(4) or R315-309-9(3) each year.

Other Required Reports

Ground Water Monitoring: Class I and V landfills only. Check if exempt ☐

Explosive Gas Monitoring: Class I, II and V landfills only. Check if exempt ☐

Training Report: A report of all training programs or procedures completed by facility personnel during the year.

Signature: _____

Date: 2-29-08

Signature should be by an executive officer, general partner, proprietor, elected official, or a duly authorized representative. A duly authorized representative must meet the requirements of the solid waste rules (UAC R315-310-2(4)(d)).

Print name: Nathan Rich

Title: Executive Director

Wasatch Integrated Waste Management District 2007 Landfill Training Report

Wasatch Integrated Waste Management District Landfill personnel completed the following training during 2007.

NEW HIRE TRAINING

Each new District and temporary employee completed the following training before being assigned to any task at the facility. Training included:

- Briefing on landfill specific hazards and hazardous materials program
- Safety equipment use and location program
- Demographic and emergency gathering points
- Safety Manual

Each employee also received task specific training before being assigned to any new task at the facility.

PERIODIC SAFETY MEETINGS

Periodic meetings were held either on a daily basis or periodically between scheduled monthly safety meetings for the purpose of discussing pertinent and timely safety issues at the landfill. Upon completion of training, a signature from all employees was required regarding understanding presented material.

MONTHLY SAFETY MEETINGS

Monthly safety meetings were held to discuss, in detail, OSHA applicable, heavy equipment operation, site specific issues, and Solid Waste Association of North America (SWANA) applicable training/industry standards. All employees attended and participated in practical application exercises, and exhibited understanding regarding information presented.

ADDITIONAL TRAINING

January	SWANA based Customer Service training; 1 st Aid/CPR/AED Re-certification; 40 hour HAZWOPER initial certification; New Hire Orientation
February	Accident Reporting Protocol; SWANA based Health/Safety, Household Waste – Compatibilities/Operation; 8 hr HAZWOPER Re-certification; HAZMAT DRILL (hydrochloric acid spill)
March	Trench/Excavation Safety (OSHA); New Hire Orientation; Contractor Safety Orientation
April	Water-Pull Truck Driving/Operations - class room, inspection, operations practical, fill tank, pump, water cannon, and operation of front and rear spray controls; 40 hour HAZWOPER initial certification; Facility Elementary School Tours; Temporary Employee Safety Orientations; Emergency Action Plan Exercise – Search for missing person
May	OSHA Blood Born Pathogen
June	Lock Out/Tag Out Training (OSHA); Heavy Equipment Operating Road – E- O
July	(None)
August	1 st Aid/CPR/AED Re-certification
September	Fire Prevention/Fire Extinguisher Training (OSHA); Contractor Safety Orientation
October	Asbestos Training
November	Incident/Accident/Near Miss/Reporting (OSHA); Hearing Protection (OSHA)
December	SWANA based Waste Screening Training; HAZCOM – HHW Labels (OSHA); 8 hr HAZWOPER Re-certification

Certification requirements for managers included credit hours continuously earned by attending previously cited classes, in addition to other applicable conferences, and seminars.

February 29, 2008

Dennis R. Downs, Director
Utah Division of Solid and Hazardous Waste
288 North 1460 West
Salt Lake City, Utah 84114-4880
Attention: Rob Powers

Re: 2007 Results of Groundwater Monitoring, Davis Landfill

Dear Mr. Downs:

This letter summarizes the results of groundwater monitoring performed during 2007 at the Davis Landfill located in Layton, Utah. Groundwater sampling was conducted to satisfy the requirements of Utah Administrative Code R315-308-2. In addition, we have provided a summary of groundwater elevations, potentiometric surface maps, a review of the sampling activities, and a summary of the data validation and statistical analysis.

Lined Landfill Cell

Two semiannual detection groundwater monitoring events were performed at the Lined Landfill Cell monitoring network during June and November 2007.

Unlined Landfill Cell

Statistical analysis of background water quality data was performed and submitted in the Background Water Quality Report (Bingham, October 1998). Results of that analysis indicated that there had been a statistically significant increase in groundwater concentrations, as compared to background groundwater quality, for several constituents within the existing landfill cell monitoring network. Assessment monitoring of the unlined landfill cell began with the November 1998 sampling event as required by UACR315-308-2. Statistical analysis of the groundwater quality data obtained during 2007 continued to indicate a statistically significant increase in several groundwater constituents as compared to background data. As such, the unlined landfill cell remained in assessment monitoring during 2007.

The assessment monitoring program at the unlined landfill cell consisted of four (4) groundwater sampling events (January, June, September and November) during 2007. The annual assessment monitoring event, in which the entire lists of constituents found in 40CFR, Part 258, Appendix II are analyzed, was performed during November of 2007.

FIELD ACTIVITIES

Groundwater Sampling

Intermountain Geo-Environmental Services' (IGES) personnel performed all groundwater sampling for the first half of the year, Wasatch personnel performed the sampling for the second half of 2007. All groundwater sampling was performed in accordance with the approved Groundwater Monitoring Plan.

All monitor wells are equipped with dedicated bladder pumps and were purged and sampled using micro-purging techniques as described in the Groundwater Monitoring Plan.

The unfiltered samples were containerized in the appropriate sample bottles and immediately placed on ice in a cooler. Groundwater samples were hand delivered under chain of custody to American West Analytical Laboratories (AWAL), a State of Utah certified laboratory. Upon receipt at AWAL, each set of samples was assigned a Laboratory Sample Set ID Number. Table 1 summarizes the Lab Set ID No., monitor network, date delivered to the laboratory and the samples delivered under each chain of custody.

Table 1

CHAIN OF CUSTODY SUMMARY 2007 Groundwater Sampling Program			
Lab Set ID No.	Monitor Network	Date Delivered	Sample ID's
75660	Unlined Cell	1/4/07 (16:17)	DMW-2, DMW-4, MW-8, MW-16R, MW-21, field blank, trip blank
75642	Unlined Cell	1/3/07 (17:34)	MW-7, MW-3, MW-4, MW-15, , field blank, trip blank
78531	Lined Cell	6/25/07 (14:37)	MW-11, MW-12, MW-13, MW-21, MW-14, field blank, trip blank
78564	Unlined Cell	6/26/07 (16:30)	DMW-2, DMW-4, MW-3, MW-7, field blank, trip blank
78583	Unlined /Lined Cell	6/27/07 (16:18)	MW-5, MW-4, MW-15, MW-8, MW-16R, MW-20, field blank, trip blank
80162	Unlined Cell	9/26/07 (17:47)	DMW-2, DMW-4, MW-16R, field blank, trip blank
80200	Unlined Cell	9/27/07 (16:35)	MW-7, MW-15, MW-8, MW-3, MW-21, field blank, trip blank
80787	Unlined Cell	10/31/07 (15:11)	MW-4
81013	Lined Cell	11/13/07 (17:03)	MW-5, MW-11, MW-12, MW-13, MW-21, MW-14, field blank, trip blank
81041	Unlined Cell	11/15/07 (7:49)	DMW-2, DMW-4, MW-7, MW-20, field blank, trip blank
81074	Unlined Cell	11/15/07 (16:23)	MW-8, MW-16R, DMW-4, MW-15, field blank, trip blank
81105	Unlined Cell	12/16/07 (16:11)	MW-3

All samples were analyzed in accordance with Utah Administrative Code R315-308-4 and/or 40CFR, Part 258, Appendix II as appropriate.

Field measurements and observations noted during sampling were both hand recorded on field data sheets and electronically recorded with a Hydrolab[®] Surveyor and a YSI Model 556. All records have been included in Attachment 1, Field Sampling Documentation.

Water Level Measurements

Groundwater level measurements were obtained during the sampling events prior to purging each monitor well (only wells that were sampled were measured in the first Quarter). Depth to groundwater and groundwater elevations are summarized in Table 2a and 2b, 2007

Groundwater Level Measurements, which have been included in Attachment 2, Potentiometric Surface Maps.

Review of the groundwater measurements indicates the direction of groundwater flow in the shallow perched aquifer is generally toward the north-northeast, which is consistent with previous measurements. The direction of groundwater flow in the deep perched aquifer is inferred to be toward the north-northeast, which is also consistent with previous measurements. Potentiometric surface maps for the upper and the intermediate aquifer, for each sampling event, have also been included in Attachment 2, Potentiometric Surface Maps.

Table 2a
2007 Groundwater Level Measurements

Well ID #	Top of Casing Elevation (feet)	Depth to water from top of PVC (feet)	Groundwater Surface Elevation (feet)	Depth to water from top of PVC (feet)	Groundwater Surface Elevation (feet)
		1 st Qtr (January)		2 nd Qtr (June)	
DMW-2	4948.99	141.49	4807.50	141.30	4807.69
DMW-4	4907.55	NM	NM	195.21	4712.34
MW-3	4702.14	82.29	4619.85	82.60	4619.54
MW-4	4833.11	40.69	4792.42	41.05	4792.06
MW-5	4884.21	NM	NM	71.70	4812.51
MW-7	4784.39	77.98	4706.41	78.15	4706.24
MW-8	4793.69	85.31	4708.38	86.49	4707.20
MW-11	4873.10	NM	NM	57.85	4815.25
MW-12	4887.98	NM	NM	76.65	4811.33
MW-13	4865.12	NM	NM	63.94	4801.18
MW-14	4815.44	NM	NM	27.00	4788.44
MW-15	4816.27	11.36	4804.91	11.97	4804.30
MW-16R	4861.10	59.52	4801.58	60.00	4801.10

NM = Not measured

Table 2b
2007 Groundwater Level Measurements

Well ID #	Top of Casing Elevation (feet)	Depth to water from top of PVC (feet)	Groundwater Surface Elevation (feet)	Depth to water from top of PVC (feet)	Groundwater Surface Elevation (feet)
		3 rd Qtr (September)		4 th Qtr (November)	
DMW-2	4948.99	141.39	4807.60	141.56	4807.43
DMW-4	4907.55	195.34	4712.21	195.35	4712.20
MW-3	4702.14	82.72	4619.42	82.50	4619.64
MW-4	4833.11	42.12	4790.99	42.65	4790.46
MW-5	4884.21	NM	NM	71.88	4812.33
MW-7	4784.39	77.38	4707.01	77.40	4706.99
MW-8	4793.69	85.55	4708.14	85.59	4708.10
MW-11	4873.10	57.77	4815.33	58.00	4815.10
MW-12	4887.98	76.48	4811.50	76.50	4811.48
MW-13	4865.12	64.08	4801.04	64.12	4801.00
MW-14	4815.44	28.20	4787.24	27.33	4788.11
MW-15	4816.27	12.66	4803.61	11.82	4804.45
MW-16R	4861.10	59.90	4801.20	59.87	4801.23

NM = Not measured

Field QA/QC Samples

Trip Blank - Trip blanks were utilized throughout the sampling events to monitor the potential for cross contamination during the storage and shipment of samples. Trip blanks were analyzed for volatile constituents.

Field Blank - Field blanks were utilized during several sampling events to monitor the potential for contamination from the environment during sample collection and transport. Field blanks were also analyzed for volatile constituents.

Field Duplicate - Field duplicate samples were taken during the sampling events to assess data precision.

DATA VALIDATION

The analytical data generated during the 2007 groundwater sampling events at the Davis Landfill has been reviewed and evaluated for quality, accuracy, and precision according to EPA data validation general guidelines and requirements. The data passes the Quality Assurance review and can be used as reliable data with the following exceptions.

Some of the data has been flagged with qualifiers, which typically designate the value as an estimate or reject the data. The following qualifiers may have been used in this review:

U -The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent

the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

J -The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

R -The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

JFD -The reported value is qualified because the associated field duplicate sample analysis control limits were exceeded.

In the event that more than one qualifier is applied to a single data point, only the more severe qualifier is shown. The 2007 laboratory analysis reports are provided in Attachment 3. Trip blank, field blank, method blank, field duplicate analyses, and Laboratory Quality Assurance/Quality Control documentation is provided in Attachment 4.

Methods and Detection Limits - All methods used in the chemical analyses of the 2007 sampling events are EPA approved methods. All laboratory reporting limits met project requirements.

Field Duplicate - Field duplicate analysis provides a means to monitor the performance of the laboratory's precision and the consistency of field sampling techniques. Precision is a measure of the reproducibility of the data. For chemical analyses, precision is calculated as relative percent difference (RPD) as follows:

$$RPD = \frac{(S - D)}{(S + D) / 2} \times 100$$

Where:

S	=	Sample Result
D	=	Duplicate Result

The acceptance criteria for sample values greater than 5 times the laboratory detection limit (LDL) is a control limit of +/- 20% for the RPD. If the sample values are less than 5 times the LDL, a control limit of +/- the LDL shall be used. If field duplicate analysis results for a particular analyte fall outside the control windows of +/- 20% or +/- LDL, whichever is appropriate, the results for that analyte in all other samples associated with that laboratory set should be flagged as estimated.

It should be noted that field QA/QC samples should not be the basis of accepting or rejecting data, but rather as additional evidence to support the conclusions arrived at by a review of the total data package. Actions taken as a result of duplicate sample analysis must be weighed carefully since it may be difficult to determine if poor precision is a result of sample non-homogeneity, method defects, or laboratory technique. In general, the results of duplicate analysis should be used to support conclusions drawn about the quality of the data rather than as a basis for these conclusions.

During 2007 a field duplicate was taken at two separate wells; MW-8 for the first three sampling events and MW-7 was used during the fourth sampling event. A field duplicate

sample was also taken during the June and October sampling events in the lined landfill cell at MW-14 and was labeled MW-20.

Table 3 summarizes those constituents that did not meet the acceptance criteria for field duplicate analysis and the action taken.

Table 3

SUMMARY OF FIELD DUPLICATE ANALYSIS		
2007 Groundwater Sampling Program		
Event	Constituent	Action/Comment
Unlined Cell – January	Ammonia	Data flagged []JFD
Unlined Cell – June	Zinc	Data flagged []JFD
Lined Cell – June	Iron	Data flagged []JFD
	COD	Data flagged []JFD
Unlined Cell – September	COD	Data flagged []JFD
	TOC	Data flagged []JFD
Lined Cell – November	Zinc	Data flagged []JFD
Unlined Cell – November	Lead	Data flagged []JFD
	Ammonia	Data flagged []JFD
	Manganese	Data flagged []JFD

Results of field duplicate laboratory analysis and summary of RPD analysis are included in Attachment 4, Quality Assurance/Quality Control Documentation.

Table 4

SUMMARY OF FIELD & Trip Blanks		
2007 Groundwater Sampling Program		
Event	Constituent	Action/Comment
Unlined Cell – June Field Blank	4-Methyl-2-pentanone	no action, see note below ¹
Unlined Cell – Nov. Field Blank	Carbondisulfide	no action, see note below ¹
Lined Cell – Nov. Field Blank	Carbondisulfide	no action, see note below ¹

¹ Constituents were non-detects in samples.

Laboratory Blanks - The assessment of blank analysis results is used to determine the existence and magnitude of contamination problems. No contaminants were detected in the Method Blanks or Laboratory Blanks during 2007.

Holding Times - To ascertain the validity of the results, the holding times (time of collection to time of analysis) was reviewed. In the third sampling event for 2007 the Semi-Volatiles for MW-8 were extracted outside of applicable hold time. The corresponding constituents were flagged R. A summary of Hold Times Analysis is provided in Attachment 4, Table 5.

Laboratory Control Sample - Laboratory control samples (LCS) demonstrate on a daily basis the ability of the laboratory to analyze samples with good qualitative and quantitative accuracy. All laboratory control sample results were within acceptable limits, with the exception to lab set ID number 81041. LCS-37699 recoveries were high and outside established limits based on normal extraction.

Matrix Spike/Matrix Spike Duplicate Sample Analysis - The matrix spike/matrix spike duplicate sample analysis provides information about the effect of the sample matrix on the digestion and measurement methodology. All laboratory matrix spike recovery results were within acceptable limits, except as summarized in Table 5.

Table 5

SUMMARY OF MATRIX SPIKE ANALYSIS				
2007 Groundwater Sampling Program				
Laboratory Set	Analyte	MS Recovery	Limit	Action/Comments
75642	Barium	171	70-130	data flagged [] J as estimated
	Calcium	46.7	75-125	data flagged [] J as estimated
	Sodium	28.7	75-125	data flagged [] J as estimated
	Cyanide	84.0	90-110	data flagged [] UJ as estimated
	Ammonia (as N)	148	90-110	data flagged [] J as estimated
	Nitrate (as N)	111	90-110	data flagged [] UJ as estimated
	TOC	71.0	80-120	data flagged [] J as estimated
78531	Ammonia	88.5	90-110	no action, see note below ¹
	TOC	77.5	80-120	no action, see note below ¹
78564	Calcium	46.7	75-125	data flagged [] J as estimated
	Cyanide	83.0	90-110	data flagged [] UJ as estimated
	TOC	131	80-120	data flagged [] J as estimated
78583	Mercury	68.5	80-120	data flagged [] UJ as estimated
	Calcium	157	75-125	data flagged [] J as estimated
	Magnesium	146	75-125	data flagged [] J as estimated
	Chloride	116	90-110	data flagged [] J as estimated
	Cyanide	78.0	90-110	data flagged [] UJ as estimated
80162	Calcium	70.0	75-125	no action, see note below ¹
	Ammonia	89.7	90-110	no action, see note below ¹
	TOC	62.0	80-120	data flagged [] UJ as estimated
80787	Iron	372	75-125	data flagged [] J as estimated
	Potassium	153	75-125	data flagged [] J as estimated
	Chloride	83.5	90-110	data flagged [] J as estimated
	Sulfate	82.0	90-110	data flagged [] J as estimated
80200	Ammonia	89.4	90-110	no action, see note below ¹
	Nitrate (as N)	85.4	90-110	data flagged [] UJ as estimated
81041	Calcium	67.8	75-125	data flagged [] J as estimated
	Ammonia	87.5	90-110	no action, see note below ¹
	Nitrate (as N)	120	90-110	data flagged [] UJ as estimated
81074	Calcium	54.6	75-125	data flagged [] J as estimated
	Magnesium	74.0	75-125	no action, see note below ¹

81074	Cyanide	86.0	90-110	no action, see note below ¹
	Ammonia	89.2	90-110	no action, see note below ¹
	Nitrate (as N)	85.0	90-110	no action, see note below ¹
81105	Pentachlorophenol	136	10-131	data flagged [] UJ as estimated
	Cyanide	84.0	90-110	data flagged [] J as estimated
	Ammonia (as N)	23.8	90-110	data flagged [] J as estimated
	Calcium	31.3	75-125	data flagged [] J as estimated
	Magnesium	20.5	75-125	data flagged [] J as estimated
	Sodium	-189	75-125	data flagged [] J as estimated

¹ These analytes are naturally found at high concentrations in the water samples. The spikes are therefore relatively small in concentration and accurate interpretations are not easily made. Laboratory test methods do not require that the MS Recovery Percents be calculated if the spike amount is less than 10% of the sample background concentration (EPA Method 200.7).

All laboratory matrix spike duplicate RPD results were within acceptable limits except as summarized in Table 6.

Table 6

SUMMARY OF MATRIX SPIKE DUPLICATE ANALYSIS						
2007 Groundwater Sampling Program						
Lab Set	Analyte	% Rec	Limit	%RPD	RPD Limit	Action/Comments
75642	Benzo(a)pyrene	84.4	15-169	38.6	25	data flagged [] UJ as estimated
	Pentachlorophenol	136	10-131	33.3	25	data flagged [] UJ as estimated
	Mercury	77.4	80-120	4.62	20	data flagged [] UJ as estimated
	Iron	38.7	75-125	2.64	20	data flagged [] J as estimated
75660	Calcium	73.7	75-125	1.88	20	no action
78531	Calcium	67.0	75-125	3.60	20	no action
78564	Sodium	74.5	75-125	20	20	no action
	Nitrate (as N)	81.0	90-110	6.75	10	data flagged [] J as estimated
78583	TOC	74.0	80-120	6.81	20	data flagged [] J as estimated
80787	Ammonia (asN)	89.1	90-110	5.64	10	no action
81074	Pentachlorophenol	15.8	10-131	44.4	25	data flagged [] UJ as estimated
81041	Pentachlorophenol	58.0	10-131	42.1	25	data flagged [] UJ as estimated

Matrix spike duplicate problems that were also associated with a matrix spike problem were not specifically addressed here as the appropriate action was applied as a result of matrix spike recovery.

Duplicate Sample Analysis - Duplicate analyses are indicators of laboratory precision based on each sample matrix. Some parameters use a duplicate analysis rather than a matrix spike analysis. All duplicate analysis results and associated relative percent differences (RPDs) were within acceptable limits.

RESULTS AND STATISTICAL ANALYSIS

Results of 2007 groundwater monitoring are summarized in Table 7, Summary of Water Quality Data at the end of this report. Laboratory reports of all analyses performed during 2007 are located in Attachment 3, Groundwater Quality Analyses.

Lined Landfill Cell

Two semiannual detection groundwater monitoring events were performed on the Lined Landfill Cell monitoring network during June and November 2007.

Statistical analysis of available water quality data for the lined landfill cell indicates that there has not been a significant change in groundwater quality as compared to background data. A summary of the statistical analysis is located in Attachment 5, Table 7.

Unlined Landfill Cell

During 2007, four groundwater assessment monitoring events were performed at the unlined landfill cell. The annual assessment monitoring event, in which the entire list of constituents listed 40CFR, Part 258, Appendix II are analyzed, was performed in November of 2007.

There were no constituents, of those listed in 40CFR Part 258 Appendix II, that were newly detected during the November 2007 groundwater sampling event. Wasatch continued to sample the Appendix II constituents which have been detected in the past; tin, anthracene, benzo(a)pyrene, pentachlorophenol, 2,4,5-T, 2,4-D, bis(2-ethylhexyl)phthalate, cyanide, and sulfide. Sampling of these constituents will continue through 2007 sampling events.

Statistical analysis of groundwater quality data for the Unlined Landfill Cell, including the November 2007 event, indicates that there is a statistically significant change, as compared to background, for several constituents as outlined in Table 7.

Table 7

STATISTICALLY SIGNIFICANT RESULTS AS COMPARED TO BACKGROUND	
Unlined Landfill Cell	
Constituent	Monitoring Network/Well(s)
Barium	Upper Aquifer – MW-4 & MW-15
	Intermediate Aquifer – MW-7
Arsenic	Upper Aquifer – MW-4
	Intermediate Aquifer – MW-7
Nickel	Upper Aquifer – MW-4
	Intermediate Aquifer – MW-7 & MW-8
Chlorobenzene	Upper Aquifer – MW-4
	Intermediate Aquifer – MW-8
Cobalt	Upper Aquifer – MW-4
	Intermediate Aquifer – MW-7 & MW-8
cis-1,2-Dichloroethene	Upper Aquifer – MW-16R
	Intermediate Aquifer – MW-7 & MW-8
Nickel	Upper Aquifer – MW-4
	Intermediate Aquifer – MW-7 & MW-8
Selenium	Upper Aquifer – MW-4 & MW-15
	Intermediate Aquifer – MW-7
1,2Dichlorobenzene	Upper Aquifer – MW-4

Beryllium	Upper Aquifer – MW-4
1,4Dichlorobenzene	Upper Aquifer – MW-4
Cadmium	Upper Aquifer – MW-4
Antimony	Upper Aquifer – MW-4
Chloroethane	Upper Aquifer – MW-4
Methylene Chloride	Upper Aquifer – MW-16R
Benzene	Intermediate Aquifer – MW-7
Mercury	Intermediate Aquifer – MW-8
Vinyl Chloride	Intermediate Aquifer – MW-7 & MW-8
Pentachlorophenol	Intermediate Aquifer – MW-7 & MW-8
Thallium	Intermediate Aquifer – MW-8

Statistical analysis also indicates that no constituent has shown a statistically significant change such that the established groundwater protection level has been exceeded. A summary of the statistical analysis is included in Attachment 5.

CONCLUSIONS

Field and laboratory data meet the requirements of Utah Administrative Code R315-308-4 and all results above laboratory detection limits are acceptable in determining groundwater quality of the shallow perched and deep perched aquifers with the exceptions indicated.

The direction of groundwater flow in the shallow perched aquifer is generally toward the north-northeast; consistent with previous measurements. The direction of groundwater flow in the deep perched aquifer is toward the north-northeast, which is also consistent with previous measurements.

Statistical analysis of available water quality data for the lined landfill cell indicates that there has not been a significant change in groundwater quality as compared to background.

Statistical analysis of groundwater quality data for the unlined landfill cell, including the November 2007 event, indicates that there is a statistically significant change, as compared to background, for several constituents. The monitor well network for the unlined landfill cell will continue in assessment monitoring.

Statistical analysis also indicates that no constituent has shown a statistically significant change such that the established groundwater protection level has been exceeded.

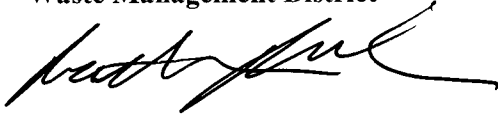
Assessment Monitoring at the Unlined Landfill Cell during 2007 will include the constituents for Detection Monitoring (UACR315-308-4) and the following Part 258 Appendix II constituents: cyanide, bis (2-ethylhexyl)phthalate, 2,4,5,-T, anthracene, benzo(a)pyrene, 2,4-D, and pentachlorophenol.

As tin has not been detected in any groundwater sampler for 29 consecutive events, and sulfide has not been detected for 21 consecutive events, Wasatch herby requests that those two constituents be removed from the Assessment Monitoring requirements.

Please do not hesitate to contact me if you have any questions regarding these submissions.

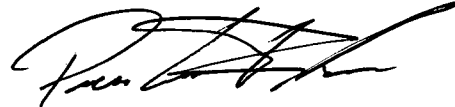
Sincerely,

**Wasatch Integrated
Waste Management District**

A handwritten signature in black ink, appearing to read 'Nathan Rich', with a long horizontal flourish extending to the right.

Nathan Rich, P.E.
Executive Director

**Wasatch Integrated
Waste Management District**

A handwritten signature in black ink, appearing to read 'Preston Lee', with a long horizontal flourish extending to the right.

Preston Lee
Environmental Engineer

attachments

LIST OF TABLES, FIGURES AND ATTACHMENTS

LIST OF TABLES

Table 1	Chain of Custody Summary
Table 2	Groundwater Level Measurements
Table 3	Summary of Field Duplicate Analysis
Table 4	Summary of Method Blank Analysis
Table 5	Summary of Hold Times Analysis
Table 6	Summary of Matrix Spike Analysis
Table 7	Summary of Water Quality Data
Table 8	Statistically Significant Results as Compared to Background

LIST OF ATTACHMENTS

Attachment 1	Field Sampling Documentation
Attachment 2	Potentiometric Surface Maps
Attachment 3	Groundwater Quality Analyses
Attachment 4	Quality Assurance/Quality Control Documentation
Attachment 5	Summary Statistical Analysis
Attachment 6	AWAL Letter

WASATCH
INTEGRATED
waste management district

February 29, 2008

Dennis R. Downs, Director
Utah Division of Solid and Hazardous Waste
288 North 1460 West
Salt Lake City, Utah 84114-4880
Attention: Rob Powers

Re: Results of 2007 Explosive Gas Monitoring, Davis Landfill

Dear Mr. Downs:

This letter provides documentation of the quarterly explosive gas monitoring conducted at the Davis Landfill as required by UACR315-303-4(5).

In the year 2007, four quarterly explosive gas monitoring events were completed on and around the property of the Davis Landfill located in Layton, Utah. The results of this monitoring are included as attachments to this report. The sampling was accomplished using a Landtec Gem 2000 monitoring instrument in accordance with the approved Explosive Landfill Gas Monitoring Plan (Bingham 1997). A well location map is also provided in Attachment I.

Explosive gas was not detected in any compliance well during 2007 in concentrations exceeding 5.0% LEL. Results are compiled in Attachment II.

Please do not hesitate to contact me if you have any questions regarding these submissions.

Sincerely,

**Wasatch Integrated
Waste Management District**



Nathan Rich, P.E.
Executive Director

attachments

650 East Hwy. 193
Layton, Utah 84041
(801) 771-5661

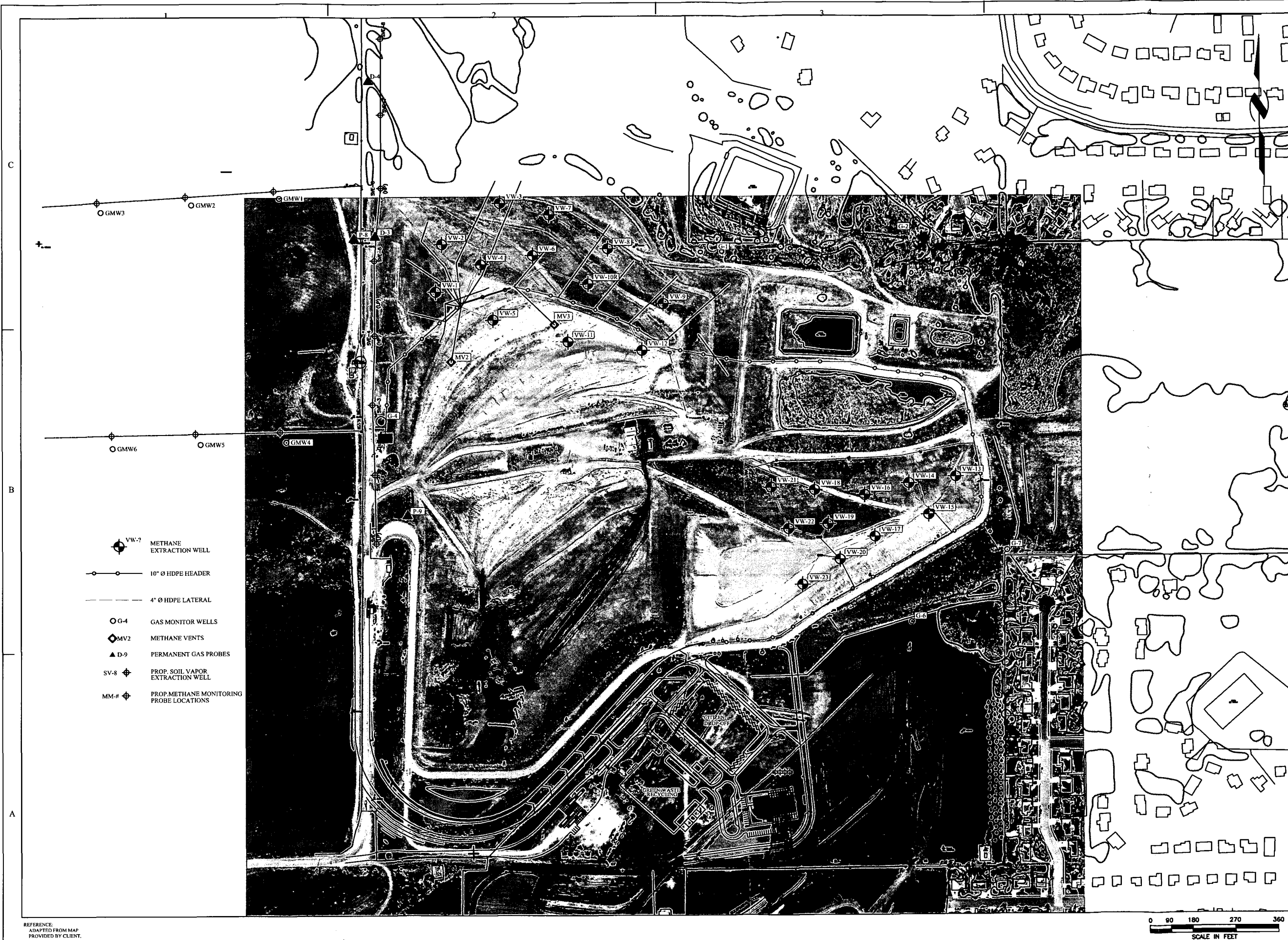
650 East Hwy. 193
Layton, Utah 84041
(801) 771-5661

CONSULTANTS



ideas for a changing world

4153 South Commerce Drive
Salt Lake City, Utah 84107
(801)270-9400 Fax: (801)270-9401



REFERENCE:
ADAPTED FROM MAP
PROVIDED BY CLIENT

	12/12/06	
MARK	DATE	DESCRIPTION
ISSUE:		
PROJECT NO.: <i>00169</i>		
CAD DWG FILE: <i>00169\Fall 06\GW and Gas.dwg</i>		
DRAWN BY: <i>JAH</i>		
DESIGNED BY: <i>BDM</i>		
CHECKED BY: <i>PL</i>		
COPYRIGHT: <i>IGES 2006</i>		

SHEET TITLE
DAVIS LANDFILL METHANE COLLECTION AND MONITORING

Gas Monitoring Data 1st Quarter 2007							
Device ID	Date/Time (mm/dd/yyyy)	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Baro (in Hg)	Rel Pressure (in H2O)
G4000035	2/27/2007 8:49	0	0	19.7	80.3	24.77	-0.03
G4000100	2/27/2007 8:52	0	9.8	9.6	80.6	24.78	0.49
G6000030	2/27/2007 15:02	0	0.5	18.9	80.6	24.86	0.92
G6000060	2/27/2007 15:12	0	0.5	19.1	80.4	24.87	0.5
G6000090	2/27/2007 15:29	0	0.5	19.2	80.3	24.87	2.83
G1000000	2/27/2007 16:16	49	33.5	0	17.5	24.96	-0.06
D4000000	2/27/2007 16:25	0	2	16.5	81.5	24.95	-0.05
D3000000	2/27/2007 16:34	0	0.7	18.7	80.6	24.84	-0.03
P8000000	2/27/2007 16:41	0	13.9	5.5	80.6	24.85	4.4
P9000000	2/27/2007 16:58	0	7.5	12.7	79.8	24.84	1.03
G2000000	2/27/2007 17:00	0	0	19.6	80.4	24.9	-0.03
G2000000	2/28/2007 7:55	0	1.7	17.2	81.1	25.02	0

Gas Monitoring Data 2nd Quarter 2007									
Device ID	Date/Time (mm/dd/yyyy)	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Baro (in Hg)	Rel Pressure (in H2O)	Lower Explosive Limit (%)	Barometric Pressure (in Hg)
G4000011	6/15/2007 6:50	0	0.6	19.9	79.5	25.01	0.01	0	25.01
G4000035	6/15/2007 6:53	0	0	20.7	79.3	25.01	-1.41	0	25.01
G4000100	6/15/2007 6:56	0	9.7	9.2	81.1	25.01	-0.15	0	25.01
D3000000	6/15/2007 7:08	0	1.5	19.1	79.4	24.98	-5.45	0	24.98
P8000000	6/15/2007 7:22	0.1	10	8.7	81.2	24.98	4.19	2	24.98
D4000000	6/15/2007 7:28	0	4	17.6	78.4	24.97	0.02	0	24.97
G1000000	6/15/2007 7:36	39	28.6	0.4	32	24.99	-0.03	<<<	24.99
G2000000	6/15/2007 7:55	0	0	20.7	79.3	25.22	-0.03	0	25.22
P9000000	6/15/2007 8:25	0	6.1	14.8	79.1	25.01	0.8	0	25.01
G6000030	6/15/2007 9:05	0	0.6	20.1	79.3	24.98	5.14	0	24.98
G6000060	6/15/2007 9:25	0	0.4	20.1	79.5	24.96	4.89	0	24.96
G6000090	6/15/2007 9:43	0	0.4	20	79.6	24.96	0.33	0	24.96
G7000040	6/15/2007 10:07	0	0.4	20.4	79.19	24.98	1.02	0	24.98
G7000060	6/15/2007 10:26	0	0.4	20.4	79.19	24.99	4.96	0	24.99
G7000100	6/15/2007 10:43	0.1	0.4	20.1	79.4	24.98	0.8	2	24.98

Gas Monitoring Data 3th Quarter 2007								
Device ID	Date/Time (mm/dd/yyyy)	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Baro (in Hg)	Rel Pressure (in H2O)	Barometric Pressure (in Hg)
G4000011	9/18/2007 6:30	0.1	0.5	20.4	79	25.11	0	25.11
G4000035	9/18/2007 6:33	10.4	6	4.5	79.1	25.07	-1.91	25.07
G4000100	9/18/2007 6:41	0.1	10.5	7.3	82.1	25.06	-0.22	25.06
D3000000	9/18/2007 7:05	0.1	2.3	19.7	77.89	25.06	0	25.06
P8000000	9/18/2007 7:08	0.7	13.8	4.9	80.6	25.05	1.75	25.05
D4000000	9/18/2007 7:15	0.1	2.3	20.1	77.5	25.05	0.01	25.05
G1000000	9/18/2007 7:24	33.4	29.6	0.4	36.59	25.07	-0.04	25.07
G2000000	9/18/2007 7:51	0.1	0	21	78.9	25.34	0	25.34
G6000030	9/18/2007 8:29	0.1	0.9	19.8	79.19	25.1	5.25	25.1
G6000060	9/18/2007 8:49	0.1	0.7	19.8	79.4	25.08	9.56	25.08
G6000090	9/18/2007 9:09	0.1	0.7	19.9	79.3	25.08	4.37	25.08
G7000040	9/18/2007 9:41	0.1	0.8	20.1	79	25.09	5.19	25.09
G7000060	9/18/2007 9:56	0.1	0.8	20.1	79	25.09	2.59	25.09
G7000100	9/18/2007 10:16	0.1	0.6	19.9	79.4	25.08	1.94	25.08
P9000000	9/18/2007 10:44	0	6	14.7	79.3	25.07	4.98	25.07

Gas Monitoring Data 4th Quarter 2007									
Device ID	Date/Time (mm/dd/yyyy)	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Baro (in Hg)	Rel Pressure (in H2O)	Lower Explosive Limit (%)	Barometric Pressure (in Hg)
G4000011	10/26/2007 6:54	0.1	0.4	20	79.5	25.06	0	2	25.06
G4000035	10/26/2007 6:56	9.7	9.8	0.2	80.3	25.07	-3.77	<<<	25.07
G4000100	10/26/2007 7:00	0.1	10.4	8.1	81.4	25.07	0.61	2	25.07
D3000000	10/26/2007 7:09	0.1	1.6	19.7	78.6	25.05	0.01	2	25.05
P8000000	10/26/2007 7:25	0.2	13.8	5.2	80.8	25.05	4.66	4	25.05
D4000000	10/26/2007 7:33	0.1	2.2	19.7	78	25.07	-0.01	2	25.07
G1000000	10/26/2007 7:42	28.3	28.9	0.5	42.29	25.08	-0.05	<<<	25.08
G2000000	10/26/2007 8:09	0.1	0	21	78.9	25.36	-0.03	2	25.36
G7000040	10/26/2007 8:52	0.1	0.8	20.2	78.89	25.15	11.74	2	25.15
G7000060	10/26/2007 9:12	0	0.8	20.2	79	25.15	0.35	0	25.15
G7000100	10/26/2007 9:26	0.1	0.7	19.7	79.5	25.15	0.37	2	25.15
G6000030	10/26/2007 9:47	0.1	0.8	19.6	79.5	25.12	0.43	2	25.12
G6000060	10/26/2007 10:00	0.1	0.7	19.9	79.3	25.13	0.5	2	25.13
G6000090	10/26/2007 11:11	0.1	0.6	20	79.3	25.12	4.36	2	25.12
P9000000	10/26/2007 14:32	0	6.5	14.1	79.4	25.08	2.9	0	25.08

WASATCH

waste management district

November 2, 2007

Mr. Dennis Downs, Director
Utah Division of Solid and Hazardous Waste
288 North 1460 West
Salt Lake City, Utah 84114-4880
Attention: Rob Powers, Environmental Scientist

Re: Financial Assurance as of June 30, 2007 for the Davis Landfill and Energy Recovery Facility.

Dear Mr. Downs:

This letter is provided to update the financial assurance sufficient to assure adequate closure and post-closure care of the Davis Class I Landfill and Energy Recovery Facility operated by Wasatch Integrated Waste Management District (The District) as of June 30, 2007. Closure and post-closure costs as of June 30, 2007 have been updated with current costs estimates.

As required under Utah Administrative Code (UAC) R315-309 the District estimates total closure and post-closure costs for the entire Davis Landfill and Energy Recovery Facility as follows:

Closure and Post Closure Costs as of:	June 30, 2006	June 30, 2007
---------------------------------------	---------------	---------------

Landfill

Unlined Cell Closure Costs	Closed	Closed
Stage A Closure Costs	\$2,755,274	Closed
Stage B Closure Costs	\$2,264,109	\$3,635,738
Stage C Closure Costs	<u>\$3,212,822</u>	<u>\$4,550,447</u>
Landfill Closure Costs	\$8,232,205	\$8,186,185
Landfill Post-Closure Costs	<u>\$2,358,813</u>	<u>\$2,122,560</u>
Total Landfill Closure and Post-Closure Costs	\$10,591,018	\$10,308,745

Energy Recovery Facility

Total Energy Recovery Facility Closure Costs	<u>\$82,025</u>	<u>\$84,486</u>
--	-----------------	-----------------

Total Closure and Post-Closure Costs (Landfill & Facility)	<u>\$10,673,043</u>	<u>\$10,393,231</u>
---	---------------------	---------------------

Landfill Capacity

<u>(Cubic Yards)</u>	<u>Total</u>	<u>Used</u>	<u>%Used</u>	<u>Remaining</u>
Unlined Cell Capacity	2,463,782	2,463,782	100%	0
Lined Cells Capacity	<u>5,217,850</u>	<u>1,452,824</u>	28%	<u>3,765,026</u>
Total Landfill Capacity	<u>7,681,632</u>	<u>3,916,606</u>	51%	<u>3,765,026</u>

Energy Recovery Facility Estimated Life

	<u>Costs</u>	<u>Accumulated Depreciation</u>	<u>Percent Used</u>
Energy Recovery Facility (Building, Boilers, Emission Eq.)	\$45,647,220	\$34,272,141	75%

Closure and Post-Closure Liability

	<u>June 30, 2007 Total Costs</u>	<u>% Used</u>	<u>June 30, 2007 Total Liability</u>
Landfill Closure	\$8,186,185	28%	\$2,292,132
Landfill Post-Closure	<u>\$2,122,560</u>	51%	<u>\$1,082,506</u>
Total Landfill Closure & Post-Closure	<u>\$10,308,745</u>		<u>\$3,374,638</u>
Energy Recovery Facility Closure	<u>\$84,486</u>	75%	<u>\$63,365</u>
Total Closure & Post-Closure	<u>\$10,393,231</u>		<u>\$3,438,003</u>

Financial Assurance General Requirements

For the financial assurance (UAC) R315-309-2(3) (a) states:

The closure cost estimate shall be based on the most expensive cost to close the largest area of the disposal facility ever requiring a final cover at any one time during the active life in accordance with the closure plan...

The District in accordance with (UAC) R315-309-2(3) estimates closure cost for the Energy Recovery Facility and the Davis Landfill's largest area ever requiring a final cover at any one time during the active life in accordance to the closure plan to be:

Largest Area Closure Costs:	June 30, 2007
Landfill Largest Area Closure Costs	
Stage A Closure Costs	Closed
Stage B Closure Costs	\$3,635,738
Stage C Closure Costs	\$4,550,447
Post-Closure Costs	<u>\$2,122,560</u>
Landfill Subtotal	\$10,308,745
Energy Recovery Facility Closure Costs	<u>\$84,486</u>
Total Largest Area Closure and Post-Closure Current Costs	\$10,393,231

The District estimates are provided in current dollars and based on the costs for a third party contractor(s) to perform the work in accordance with the final closure plan.

Financial Assurance Mechanisms

The District, in accordance with (UAC) R315-309-3(4), intends to provide financial assurance for the period ending June 30, 2007 by a combination of mechanisms that together meet the \$10,393,231 requirements of subsection (UAC) R315-309-1(1). The financial assurance mechanisms chosen by the District are:

(UAC) R315-309-4 Trust Fund

The District has established an escrow account with the Utah State Treasurer invested in the Utah Public Treasurers' Investment Fund which has been accepted by the Utah Division of Solid and Hazardous Waste meeting the requirements of (UAC) R315-309-4. The balance as of June 30, 2007 is \$4,332,906.

(UAC) R315-309-8 Local Government Financial Test

The District intends to provide the remaining required balance of \$6,060,325 for closure and post-closure financial assurance through the Local Government Financial Test.

The Local Government Test requires:

- **(UAC) R315-309-8(2)(a)**
The District had no bonds outstanding as of June 30, 2007.
- **(UAC) R315-309-8(2)(c)**
The District's financial statements are prepared in conformity with Generally Accepted Accounting Principles for governments. Crane, Christensen & Ambrose an independent certified public accounting firm has audited the June 30, 2007 Financial Statements.
- **(UAC) R315-309-8(2)(d)**
The District has placed a reference to the closure and post-closure costs in each audited financial report since 1994. The District current fiscal year comprehensive annual financial report as of June 30, 2007 also contains a reference to closure and post-closure care costs. All subsequent comprehensive annual financial reports during the time in which closure and post-closure care costs are assured through the financial test will include a reference to the closure and post-closure care costs assured through the financial test. The reference to the closure and post closure care cost include:
 - (i) the nature and source of the closure and post-closure care requirements
 - (ii) the reported liability at the balance sheet date
 - (iii) the estimated total closure and post-closure care costs remaining to be recognized
 - (iv) the percentage of landfill capacity used to date
 - (v) the estimated landfill life in years
- **(UAC) R315-309-8(6)(a)**
"If the local government does not assure other environmental obligations through a financial test it may assure closure, post-closure, and corrective action costs that equal up to 43% of the local government's total annual revenue."

The cost of closure and post-closure care of the Davis Landfill and Energy Recovery Facility are the only current costs that the District is assuring by the Local Government Financial Test. In accordance with (UAC) R315-309-2(3) the District estimates the current cost to be covered by the Local Government Financial Test is \$6,060,325.

As required by (UAC) R315-309-8(4)(a)(i)(ii) I certify that Wasatch Integrated Waste Management District currently exceeds the requirements of Subsections (UAC) R315-309-8(2) and (6) for closure and post-closure care costs of the Davis Landfill. Evidence for this statement is calculated as of fiscal year ended June 30, 2007:

Total revenue:	\$16,496,339
Less gain (Loss) on sale of assets: FY 2007:	<u>(367,170)</u>
Total annual revenue for fiscal year 2007:	\$16,129,169
43% of the local government's total annual revenue:	<u>43%</u>
Maximum allowable assurance by financial test:	\$6,935,543

Based on this calculation the District meets the requirements and can provide the \$6,060,325 through the Local Government Financial Test.

- (UAC)R315-309-8(4)(b)
Wasatch Integrated Waste Management's audited financial statements audited by Crane Christensen & Ambrose for the fiscal year ending June 30, 2007 are attached to this letter.
- (UAC)R315-309-8(4)(c)
A report to the District's Administrative Control Board from a independent certified public accountant stating the procedures performed and the findings relative to the requirements of Subsections UACR315-309-8(2)(c) and UACR315-309-8(3)(c) and (d) is attached to this letter.
- (UAC)R315-309-8(2)(d)
The District will include a reference to the closure and post-closure care costs assured through the financial test into the next comprehensive annual financial report and in every subsequent comprehensive annual report during the time in which closure and post-closure costs are assured through the financial test.

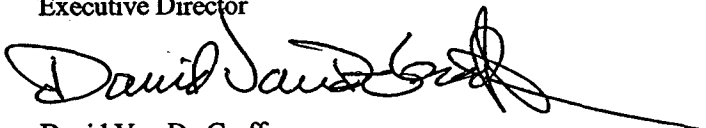
If you have any questions or require any additional information please feel free to contact us at 801-614-5600.

Sincerely,

Wasatch Integrated Waste Management District



Nathan Rich, P.E.
Executive Director



David Van De Graff
Controller

Cc: Steve Crane

WASATCH INTEGRATED WASTE MANAGEMENT DISTRICT

Report on Application of Agreed-Upon Procedures

November 7, 2007

Independent Accountant's Report On
Application of Agreed-Upon Procedures

President and Board of Directors
Wasatch Integrated Waste Management District
P.O. Box 900
Layton, UT 84041-0900

We have performed the procedures enumerated below which were agreed to by you solely to assist the District in meeting its closure and post-closure care financial assurance requirements. This engagement to apply agreed-upon procedures was performed in accordance with standards established by the American Institute of Certified Public Accountants. The sufficiency of the procedures is solely the responsibility of the specified users of the report. Consequently, we make no representation regarding the sufficiency of the procedures described below either for the purpose for which this report has been requested or for any other purpose.

PROCEDURES:

1. Compare the data and statements contained in the letter dated November 2, 2007 from the District's controller David VanDeGraff with the data and statements presented in the audited financial statements for the year ended June 30, 2007 to determine that the data and statements in the letter were taken directly, or were appropriately derived, from the financial statements.
2. Confirm that the financial statements were prepared in conformity with Generally Accepted Accounting Principles for Governments.
3. Confirm that the District did not operate at a deficit equal to 5% or more of its total annual revenue for the past two years.
4. Confirm that the financial statements were audited by the independent certified public accountant.
5. Confirm that the District's audited financial statements did not receive an adverse opinion, disclaimer of opinion, or other qualified opinion from the auditor.

FINDINGS:

1. We confirmed that the data and statements contained in the letter dated November 2, 2007 from the District's controller were taken directly or were appropriately derived from the audited financial statements for the year ended June 30, 2007.
2. We confirmed that the financial statements were prepared in conformity with Generally Accepted Accounting Principles for Governments.
3. We confirmed that the District did not operate at a deficit equal to 5% or more of its total annual revenue for the past two years.
4. We confirmed that the financial statements were audited by the independent certified public accountant.
5. We confirmed that the District's audited financial statements did not receive an adverse opinion, disclaimer of opinion, or other qualified opinion from the auditor.

We were not engaged to and did not perform an audit, the objective of which would be the expression of an opinion on the specified elements, accounts or items. Accordingly, we do not express such an opinion. Had we performed additional procedures, other matters might have come to our attention that could have been reported to you.

This report is intended solely for the use of the specified users listed above and should not be used by those who have not agreed to the procedures and taken responsibility for the sufficiency of the procedures for their purposes.

Crane Christensen & Ambrose

November 7, 2007

Volumes in Place as of June 30, 2007

Year	Landfill										Waste Processed at Plant (ton/yr)	District Wide	
	Yearly MSW Placement at Landfill (ton/yr) (cy/yr)		MSW Cumulative (ton) (cy)		Yearly Ash Placement (ton/yr) (cy/yr)		Ash Cumulative (ton) (cy)		Yearly MSW & Ash (ton/yr) (cy/yr)		MSW & Ash Cumulative (ton) (cy)	Waste Disposed (ton/yr)	Percentage Increase in Tonnage
1953	885	1,476	885	1,476			0	0	885	1,476			
1954	1,771	2,951	2,656	4,427			0	0	1,771	2,951			
1955	2,656	4,427	5,312	8,854			0	0	2,656	4,427			
1956	3,542	5,903	8,854	14,757			0	0	3,542	5,903			
1957	4,427	7,378	13,281	22,135			0	0	4,427	7,378			
1958	5,312	8,854	18,594	30,989			0	0	5,312	8,854			
1959	6,198	10,330	24,791	41,319			0	0	6,198	10,330			
1960	7,083	11,805	31,875	53,125			0	0	7,083	11,805			
1961	7,969	13,281	39,843	66,406			0	0	7,969	13,281			
1962	8,854	14,757	48,698	81,163			0	0	8,854	14,757			
1963	9,740	16,233	58,437	97,395			0	0	9,740	16,233			
1964	10,625	17,708	69,062	115,103			0	0	10,625	17,708			
1965	11,510	19,184	80,572	134,287			0	0	11,510	19,184			
1966	12,396	20,660	92,968	154,947			0	0	12,396	20,660			
1967	13,281	22,135	106,249	177,082			0	0	13,281	22,135			
1968	14,167	23,611	120,416	200,693			0	0	14,167	23,611			
1969	15,052	25,087	135,468	225,780			0	0	15,052	25,087			
1970	15,937	26,562	151,405	252,342			0	0	15,937	26,562			
1971	16,823	28,038	168,228	280,380			0	0	16,823	28,038			
1972	17,708	29,514	185,936	309,894			0	0	17,708	29,514			
1973	18,594	30,989	204,530	340,883			0	0	18,594	30,989			
1974	19,479	32,465	224,009	373,348			0	0	19,479	32,465			
1975	20,364	33,941	244,373	407,289			0	0	20,364	33,941			
1976	21,250	35,416	265,623	442,705			0	0	21,250	35,416			
1977	22,135	36,892	287,758	479,597			0	0	22,135	36,892			
1978	23,021	38,368	310,779	517,965			0	0	23,021	38,368			
1979	23,906	39,843	334,685	557,808			0	0	23,906	39,843			
1980	24,791	41,319	359,476	599,127			0	0	24,791	41,319			
1981	25,677	42,795	385,153	641,922			0	0	25,677	42,795			
1982	26,562	44,271	411,716	686,193			0	0	26,562	44,271			
1983	27,448	45,746	439,163	731,939			0	0	27,448	45,746			
1984	28,333	47,222	467,496	779,161			0	0	28,333	47,222			
1985	29,219	48,698	496,715	827,858			0	0	29,219	48,698			
1986	30,104	50,173	526,819	878,032			0	0	30,104	50,173			
1987	30,989	51,649	557,808	929,681	1,742	1,161	1,742	1,161	32,731	52,810	559,550	930,842	6,698
1988	31,875	53,125	589,683	982,805	27,147	18,098	28,889	19,259	59,022	71,223	618,572	1,002,064	103,616
1989	32,760	54,600	622,443	1,037,405	30,609	20,406	59,498	39,665	63,369	75,006	681,941	1,077,071	111,549
1990	33,646	56,076	656,089	1,093,481	30,214	20,143	89,712	59,808	63,860	76,219	745,801	1,153,289	109,623
1991	34,531	57,552	690,620	1,151,033	29,674	19,783	119,386	79,591	64,205	77,334	810,006	1,230,624	109,022
1992	35,416	59,027	726,036	1,210,060	31,683	21,122	151,069	100,713	67,099	80,149	877,105	1,310,773	104,825
1993	36,302	60,503	762,338	1,270,563	24,077	16,051	175,146	116,764	60,379	76,554	937,484	1,387,327	101,615
1994	48,425	80,708	810,763	1,351,272	32,483	21,655	207,629	138,419	80,908	102,364	1,018,392	1,601,651	125,463
1995	72,761	121,268	883,524	1,472,540	33,938	22,625	241,567	161,045	106,699	143,894	1,125,091	1,704,014	126,652
1996	67,610	112,683	951,134	1,585,223	31,398	20,932	272,965	181,977	99,008	133,615	1,224,099	1,847,908	122,602
1997	97,247	138,924	1,048,381	1,724,148	32,969	21,979	305,934	203,956	130,216	160,904	1,354,315	1,928,104	117,650
1998	115,732	165,331	1,164,113	1,889,479	34,653	23,102	340,587	227,058	150,385	188,433	1,504,700	2,116,537	128,808
1999	136,407	194,867	1,300,520	2,084,346	34,615	23,077	375,202	250,135	171,022	217,944	1,675,722	2,334,481	125,722
2,000	122,377	174,824	1,422,897	2,259,170	34,944	23,296	410,146	273,431	157,321	198,120	1,833,043	2,532,601	130,046
2,001	148,999	212,856	1,571,896	2,472,026	30,458	20,305	440,604	293,736	179,457	233,161	2,012,500	2,765,762	113,587
2,002	123,775	176,821	1,695,671	2,648,848	32,439	21,626	473,043	315,362	156,214	198,447	2,168,714	2,964,210	120,146
2,003	120,117	171,596	1,815,788	2,820,443	33,174	22,116	506,217	337,478	153,291	193,712	2,322,005	3,157,921	118,690
2,004	125,256	178,937	1,941,044	2,999,380	36,337	24,225	542,554	361,703	161,593	203,162	2,483,598	3,361,083	124,101
2,005	135,059	192,941	2,076,103	3,192,322	33,408	22,272	575,962	383,975	168,467	215,213	2,652,065	3,576,297	116,252
2,006	137,723	196,747	2,213,826	3,389,068	37,475	24,983	613,437	408,958	175,197	221,730	2,827,262	3,798,026	127,415
June '07	74,258	106,083	2,288,084	3,495,152	18,746	12,497	632,182	421,455	93,004	118,580	2,920,266	3,916,606	63,993

Total Landfill: 7,681,632 = Permitted Design Capacity of Landfill
 3,916,606 = Waste in Landfill at June 30, 2007
 3,765,026 = Volume Remaining Total Site
 51% = Percentage of Total Landfill Used

Unlined Cell: 2,463,782 = Permitted Design Capacity of Unlined Cell (Closed)
 0 = Volume Remaining
 100% = Percentage of Unlined Landfill Used

Lined Cell: 5,217,850 = Permitted Design Capacity of Lined Cell
 1,452,824 = Waste in Lined Cell at June 30, 2006
 3,765,026 = Volume Remaining in Lined Cell at June 30, 2006
 28% = Percentage of Lined Cell Used at June 30, 2006

Notes:

Design Landfill Capacity = 7,681,632 cubic yards of waste per 2002 permit

Aerial survey data indicates that as of June 1996 the landfill had received 1,781,100 cubic yards of waste. To estimate the total received through December 1996, 1,847,908 cubic yards, it was assumed that half the waste received during 1996 was received after the June survey.

The amount of waste received during 1994 and later is documented by scale house records.

Waste placement rates for the years prior to scale records was estimated by distributing the remaining volume, 1,270,563 cy, over the years 1953 through 1993 assuming an annual increase of 885 tons per year.

1200 lb/cy in place density 1952 through 1996

1400 lb/cy in place density thereafter

LANDFILL POST-CLOSURE COSTS (30 YEARS)

Section 1.0 - Engineering

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
1.1	Post-Closure Plan	NA			\$0
1.2	Annual Report (including results from gas, leachate, and ground water sampling - details of maintenance performed)	LS	\$5,000	30	\$150,000
a	Semiannual Site Inspections	LS	\$320	60	\$19,200
b	Plan Update	LS	\$200	30	\$6,000
	Engineering Subtotal				\$175,200

(1 day of time)

Section 2.0 - Gas Collection System - Sampling

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
2.1	Sample Collection	LS	\$320	120	\$38,400
2.2	Sample Analysis	NA			\$0
2.3	Report (Part of Annual Report)				
	Gas Collection System - Sampling Subtotal				\$38,400

QUARTERLY SAMPLING (Documentation)
(4 hours of time)

Section 3.0 - Leachate Collection System - Sampling

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
2.1	Sample Collection	LS	\$80	60	\$4,800
2.2	Sample Analysis	NA	\$400	60	\$24,000
2.3	Report (Part of Annual Report)				
	Leachate Collection System - Sampling Subtotal				\$28,800

SEMI-ANNUAL SAMPLING (Documentation)
(2 field hours, minimal analytical work)

Section 4.0 - Ground Water Monitoring System - Sampling

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
3.1	Sample Collection	LS	\$640	60	\$38,400
3.2	Sample Analysis	LS	\$6,000	120	\$720,000
3.3	Report (Part of Annual Report)				
	Ground Water Collection System - Sampling Subtotal				\$758,400

QUARTERLY SAMPLING (2 days/event)

Section 5.0 - Facility Operations and Maintenance

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
4.1	Cover				
a	Soil Replacement	LS	\$1,000	30	\$30,000
b	Vegetation/Reseeding	LS	\$500	30	\$15,000
4.2	Storm Water Protection Structures				
a	Ditch and Culvert Maintenance	LS	\$500	30	\$15,000
b	Berm and Basin Maintenance	LS	\$500	30	\$15,000
4.3	Gas Collection System				
a	System Operation	NA	\$240	3120	\$748,800
b	System Repair	LS	\$2,000	30	\$60,000
4.4	Leachate Collection System				
a	System Operation	NA		30	\$0
b	System Repair	NA		30	\$0
4.5	Ground Water Monitoring System				
a	System Operation	NA		30	\$0
b	System Repair	LS	\$500	30	\$15,000
4.6	Site Security				
a	Lighting, signs, etc...	LS	\$500	30	\$15,000
b	Fencing and Gates	LS	\$500	30	\$15,000
4.7	Miscellaneous				
a					
b					
	Facility Operations and Maintenance Subtotal				\$928,800

(4 hours @ \$60/hr every week)

Total \$1,929,600
 10% Contingency \$192,960
 Total Post-Closure Cost \$2,122,560